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(54) **MEDICAL IMAGING SYSTEM AND
MEDICAL IMAGE PROCESSING
APPARATUS**

(71) Applicant: **Konica Minolta, Inc.**, Tokyo (JP)
(72) Inventors: **Chiho Makifuchi**, Hino (JP); **Kazuhiro
Kido**, Hino (JP); **Junko Kiyohara**,
Hino (JP)

(73) Assignee: **KONICA MINOLTA, INC.**, Tokyo
(JP)

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See application file for complete search history.

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Primary Examiner — Hoon Song

(74) *Attorney, Agent, or Firm* — Cantor Colburn LLP

(57) **ABSTRACT**

A medical imaging system creates three kinds of recon-
structured images of a diagnosis target site in a subject through
X-ray imaging of the diagnosis target site with a Talbot or
Talbot-Lau imaging apparatus, the three kinds of recon-
structured images being an absorption image, a differential
phase image, and a small-angle scattering image. The medi-
cal imaging system includes: an input unit to receive an
input of diagnosis target information for specifying the
diagnosis target site, or the diagnosis target site and a disease
to be diagnosed in the diagnosis target site; and a control unit
to create a combined image of two kinds of reconstructed
images among the three kinds of reconstructed images on
the basis of the diagnosis target information input through
the input unit, and to control a displaying unit to display the
combined image.

13 Claims, 20 Drawing Sheets

